



- Water leak signalization
- 2 relay outputs
- Power supply 24 VDC, 24 VAC
- DIN rail mounting

Flood sensors **DZ5** are designed to signal fault conditions (e.g. water leakage) in the operation of heat exchanger stations, boiler rooms and similar equipment. They belong to the category of conductivity type sensors. A suitable probe, e.g. type DS, must be connected to the sensor input using a suitable two-wire cable (with minimum capacitance between conductors) with a recommended length of max. 5m. When the probe electrodes are connected to a conductive medium, the red LED on the front of the device lights up and two output relays are activated/deactivated according to the table.

	Re1 contacts	Re2 contacts	
		SW1 = A	SW1 = B
No power supply	ON	OFF	OFF
Power supply , no flooding	ON	OFF	ON
Power supply , flooding	OFF	ON	OFF

SW1 is accessible after removing the right side cover of the device (when viewed from the front). To prevent false alarms, there is a time delay of approximately 1 second between probe activation and output activation. This means that probe activation shorter than 1 second will not be reflected on the outputs.

The devices are powered by a separate 24VDC or 24VAC SELV type, i.e. no pole of the power supply must be grounded. Otherwise, if the probe touches a conductive liquid (almost always grounded), the input signal will leak and the device will not function. For this reason, the devices must not be combined with older types of sensors DZ1 to DZ4 or SZ1 to SZ4 on the same power supply, as these sensors have one input terminal connected to the GND of the device, which would violate the SELV through the conductive liquid.

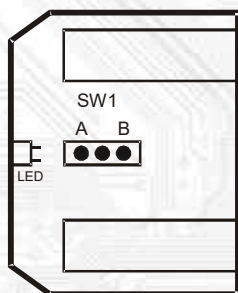
The device electronics are housed in a plastic box with DIN rail mounts.

Notice:

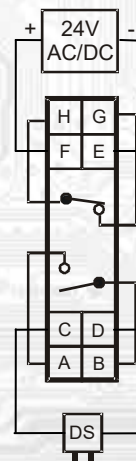
These devices are intended to signal fault conditions (flooding of a space) and are not intended for permanent level sensing or level control.

Basic technical data

Power supply	24VDC $\pm 10\%$ / 24VAC $\pm 10\%$
Max. power	max. 0,6VA
Power supply protection type	SELV
Fluid resistance	max. 100 k Ω
Measuring signal at terminal C	cca 11Vpp / 240Hz
Max. cable capacity to probe	1nF
Indication	red LED
Max. switching voltage / current of relay	250 VAC / 8 A ($\cos \phi = 1$) 24 VDC / 8 A ($\cos \phi = 1$)
Max. switching power	2000 VA / 192 W
Min. switched load	100 mA 5 VDC
Galvanic separation of relay	yes < 250V
Range of working temp. / RH	-20 $\div$ 60 $^{\circ}$ C / 0 $\div$ 95 %RH no condensation
Range of storage temp. / RH	-20 $\div$ 60 $^{\circ}$ C / 0 $\div$ 95 %RH no condensation
Protection type	IP20
Conductors	max. 1,5 mm ²
Dimensions	18 x 63 x 64 mm



H,G.....contacts Re1
F..... terminal +24VDC/24VAC
E..... terminal -24VDC/24VAC
C,D.....probe connection terminals
A,B.....contacts Re2



	Re1 contacts	Re2 contacts	
		SW1 = A	SW1 = B
No power supply	ON	OFF	OFF
Power supply , no flooding	ON	OFF	ON
Power supply , flooding	OFF	ON	OFF

Relay contacts when power is off

Recommended sensing electrodes

DS

Combined two-electrode level probes DS are, in conjunction with flooding sensors of the DZ or SZ series, intended for signaling fault conditions (e.g. water leakage) in the operations of heat exchanger stations, boiler rooms and similar equipment. They belong to the conductivity type category. The probes are placed in a plastic box intended for direct wall mounting using two screws.

Range of working temp.	-30 ÷ 60 °C
Range of storage temp.	-30 ÷ 60 °C
Protection type	IP65
Conductors	max. 1,5 mm ²
Dimensions	92 x 91 x 36 mm

DS

